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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,662	02/23/2004	John F. Conley JR.	SLA0674	2287
27518	7590 03/10/2006		EXAMINER	
SHARP LABORATORIES OF AMERICA, INC 5750 NW PACIFIC RIM BLVD			WOJCIECHOWICZ,	EDWARD JOSEPH
CAMAS, WA 98642			ART UNIT	PAPER NUMBER
<b></b> ,			2815	

DATE MAILED: 03/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

BIL

		Application No.	Applicant(s)			
Office Action Summary		10/784,662	CONLEY ET AL.			
		Examiner	Art Unit			
	<u> </u>	Edward Wojciechowicz	2815			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.11 SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	·					
1)	Responsive to communication(s) filed on 19 De	ecember 2005				
	his action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) 1-13,27 and 28 is/are pending in the a	application				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1-13,27 and 28</u> is/are rejected.					
· —	Claim(s) are subject to restriction and/or	r election requirement	·			
- ۵٫	are subject to restriction and of	r clection requirement.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) 🔲 '	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	ınder 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	a) ☐ All b) ☐ Some * c) ☐ None of:					
۵٫۱						
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
* 0	application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
3	bee the attached detailed Office action for a list (	of the certified copies not receive	<b>0</b> .			
Attachment	t(s)					
Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
	Paper No(s)/Mail Date  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Notice of Informal Patent Application (PTO-152)					
	r No(s)/Mail Date	6) Other:	Steric reprioation (i 10-102)			
S. Patent and Tr	ademark Office					

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## **DETAILED ACTION**

## Response to Amendment

The affidavit filed on 12-19-05 under 37 CFR 1.131 is sufficient to overcome the Huotari reference.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-13, 27 and 28 are rejected under 35 U.S.C. 102(e) as being anticipated by Barnak et al (2003/0146479). The reference to Barnak teaches the inventive process including the formation of a MOSFET device with a gate dielectric, a first metal barrier layer having a thickness less than 5nm, and a second metal gate electrode overlying the metal barrier layer, such that the work function of the device is determined by the second metal gate material. See, for example, the discussion in [0034] of Barnak.

Barnak also teaches the use of the claimed materials, and the barrier layer of Barnak would inherently provide the same protection from migrating impurities as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward Wojciechowicz Primary Examiner Art Unit 2815

EW: ew